SECTION I: GENERAL INFORMATION				CR-ERNS Number: 826306		
Date of In	itial Release:	Ongoing		Date of Initial Call to NRC: 02/12/2007		
	Type of Report: Indicate below the type of report you are submitting. First Anniversary Written Notification of a Change to Initial Notification Follow-up Report Report First Anniversary Uritten Notification of a Change to Follow-up Report					
quantity and ra	Signed Statement: I certify that the hazardous substances releases described herein are continuous and stable in quantity and rate under the definitions in 40 CFR 302.8(a) or 355.4(a)(2)(iii) and that all submitted information is accurate and current to the best of my knowledge. Stan Sander, Managing Director Name and Position					
2-1	0-2008 Date			Stan Fander Signature		
	WANK COMMENT	nformation				
	Name of Facility or Vessel Baldwin Energy Complex					
Person in Charge of Facility or Vessel	Name of Person in Position Telephone No. (61)			Stan Sander Managing Director Alternate Telephone No. (618) 785-3244		
Facility Address or	Street	10901 Baldwin F	Road			
Vessel Port of Registration	City	Baldwin		State IL Zip Code 62217		
	dstreet Number	for Facility		804405074		
Facility/Vess Location		Deg Min Deg Min		12 Sec 18 Vessel LORAN Coordinates 51 Sec 16		
Part B. Population Information						
Population Density	Choose the range that describes the population density within a one-mile radius of your facility or vessel (Indicate by placing an "X" in the appropriate blank below). 0 - 50 persons 101 - 500 persons more than 1000 persons 51 - 100 persons 501 - 1000 persons					
Sensitive Populations and Ecosystems Within One Mile Radius		ve Populations or E pitals, wetlands, wi		· · · · · · · · · · · · · · · · · · ·		

CR-ERNS Number:

826306

Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.

Name of Source:	Baldwin Energy Complex	- Unit 1
1. Indicate whether the release from t	his source is either:	THE STATE OF THE S
continuous without interruption	X OR routine, anticipated	, intermittent
	ts in the release from this source (e.g., batch action and explain why the release from the and rate.*	
3aldwin generates electricity by t	the combustion of sub-bituminous co	oal in Unit 1.
		, 9,9 MAN WAS A Wilder
3. Identify below how you establish	ed the pattern of release and calculated relea	ase estimates.
X Past release data	Knowledge of the facility/vessel's operations and release history	Engineering estimate
X AP-42 factors	Best professional judgment	Other (explain)
Reporting is based on generation	n at maximum load for a 24-hour pe	riod.

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

SECTION II:	SOURCE
	INFORMATION
	(continued)

CR-ERNS Number:

826306

Name of Source:	Baldwin Energy Complex - Unit 1
Part B: Specific Information	on on the Source
For the source identified above sheet for EACH source. Pho	ve, provide the following information. Please provide a SEPARATE stocopy this page if necessary.
affected by the release from this sour wastepile releasing to air and ground	the environmental medium (i.e., air, surface water, soil, or ground water) that is ree. If your source releases hazardous substances to more than one medium (e.g., a water), treat the release to EACH medium as a separate source and complete format for EACH medium affected.
AIR × (stack × or are source is a stack or a ground-ba	ca) If the medium affected is air, please also specify whether the used area source.
If identified source is an a	rea source (e.g., waste pile, landfill, valves, tank vents, pump seals, fugitive ce area: square feet or square meters.
SURFACE WATER (st	ream, lake, or other)
If the release affects any s	urface water body, give the name of the water body.
stream order: or a If the release affects a lak	eam, give the stream order or average flow rate, in cubic feet per second. everage flow rate: cubic feet/second; OR ete, give the surface area of the lake in acres and the average depth in meters. acres and average depth of lake: meters.
SOIL OR GROUND WATER If the release is on or under ground	d, indicate the distance to the closest water well.
	Optional Information
evaluating the risks associated make conservative assumpti	not required in the final rule; however, such information will assist EPA in a with the continuous release. If this information is not provided, EPA will it with the appropriate values. Please note that the units specified below the units; however, he certain that the units are clearly identified.

For a stack release to air, provide the following

information, if available:

For a release to surface water, provide the following information, if available:

Average Velocity _____ feet/second of Surface Water

SECTION II: SOURCE INFORMATION (continued)

CR-ERNS Number:

826306

Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

Name of Source:

Baldwin Energy Complex - Unit 1

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Total Quantity Number of Days Release Occurs Upper Bound Lower Bound (in lbs. or kg per day)* Normal Range CASRN#

(per year)

Months of the Released in Previous Year (in lbs. or kg)*

Release

Ammonia

Name of Hazardous Substance

7661-41-7

107682 lbs

Jan-Dec

MA AMA A BALLAS

No change in HP, Hg a As ger later of 3/6/08

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Hazardous Substance Name of

(in lbs. or kg per day)* Lower Bound Components Upper Bound Percentage

CASRN#

Components

Name of Mixture

(in lbs. or kg per day)* Upper Lower Upper Lower Bound Mixture

Normal Range of

Normal Range of

Number of Total Quantity of Days Release Mixture Released in Previous Year (in lbs. or kg) (per year) Occurs

Release of the

Months

Not Applicable

* Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.

CR-ERNS Number:

826306

Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.

Name of Source:	Baldwin Energy Complex	c - Unit 2
1. Indicate whether the release from	om this source is either:	
continuous without interruption	OR routine, anticipated	, intermittent
	esults in the release from this source (e.g., batch alfunction and explain why the release from the ity and rate.*	
aldwin generates electricity	by the combustion of sub-bituminous c	oal in Unit 2.
WANTED TO THE TOTAL THE TOTAL TO THE TOTAL TOTAL TO THE T		
2. Identify helevy how you getal	plished the pattern of release and calculated rele	
	-	
Past release data	Knowledge of the facility/vessel's operations and release history	Engineering estimate
X AP-42 (Actor)	Best professional judgment	Other (explain)
reporting is based on genera	ation at maximum load for a 24-hour pe	riod.
	от на при на На при на пр	

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

SECTION II:	SOURCE
	INFORMATION
	(continued)

Gas Temperature 306 F degrees Fahrenheit,

Kelvin, or Celsius

CR-ERNS Number:

826306

Name of Source:	Baldwin En	ergy Complex - Unit 2
Part B: Specific Information	n on the Source	
For the source identified above sheet for EACH source. Phot	-	g information. Please provide a SEPARATE essary.
affected by the release from this source	ee. If your source releases h water), treat the release to E	e., air, surface water, soil, or ground water) that is azardous substances to more than one medium (e.g., a ACH medium as a separate source and complete affected.
source is a stack or a ground-base. If identified source is a stack. If identified source is an ar	ed area source. ck, indicate stack height: 60	landfill, valves, tank vents, pump seals, fugitive
CUDEACE WATER (ctr	laka or	_ 41
SURFACE WATER (str	eam, lake, or	other)
If the release affects any su	rface water body, give the	name of the water body.
stream order: or av If the release affects a lake	verage flow rate: cubi	e lake in acres and the average depth in meters.
Ø SOIL OR GROUND WATER		
If the release is on or under ground	, indicate the distance to the	closest water well.
	Optional Inform	nation
evaluating the risks associated make conservative assumption are suggested units. You may	with the continuous release. ons about the appropriate was other units; however, be	however, such information will assist EPA in If this information is not provided, EPA will values. Please note that the units specified below e certain that the units are clearly identified.
Gas Exit Velocity 145 ft/sec fe	eet or meters	For a release to surface water, provide the following information, if available: Average Velocity feet/second of Surface Water

SECTION II: SOURCE INFORMATION (continued)

CR-ERNS Number:

826306

Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

Name of Source:

Baldwin Energy Complex - Unit 2

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Number of Days Upper Bound Lower Bound (in lbs. or kg per day)* Normal Range

Release Occurs (per year)

Months of the Released in Previous Year Total Quantity

(in lbs. or kg)*

Jan-Dec

Release

7661-41-7 Ammonia

CASRN#

Name of Hazardous Substance

88250 lbs

10 Change Le HT Kg a As pur letter of 3/6/08

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Substance Components Hazardous Name of

(in lbs. or kg per day)* Lower Bound Components Upper Bound Percentage Weight

CASRN#

(in lbs. or kg per day)* Upper Lower Bound Bound Mixture

Normal Range of

Normal Range of

Number of Total Quantity of Days Release Mixture Released in Previous Year (in lbs. or kg) (per year) Occurs

Release

Months of the

Not Applicable

Name of Mixture

* Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.

CR-ERNS Number:

826306

Calculation of the SSI Trigger

For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.

Name of Hazardous Substance:

Ammonia CAS #7664-41-7

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

<u>Upper Bound of the Normal Range of</u> the Release (specify lbs., kg, or Ci)

Baldwin Energy Complex - Unit 1 Baldwin Energy Complex - Unit 2 346 lbs 346 lbs

No Charge in Vint 3 Releases pur fetter of 3/1/08

TOTAL - SSI trigger for this hazardous substance release* : ____

792 lbs

* This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.

SECTION I: GENERAL INFORMATION			CR-ERNS Number: 826306		
Date of Initial Release: Ongoing		Ongoing	Date of Initial Call to NRC: 02/12/2007		
Type of R	eport: Indicate be	low the type of report y	ou are submitting.		
X Initial V	Vritten Notification	First Anniversary Follow-up Report	Written Notification of a Change to Initial Notification Written Notification of a Change to Follow-up Report		
Signed Statement: I certify that the hazardous substances releases described herein are continuous and stable in quantity and rate under the definitions in 40 CFR 302.8(a) or 355.4(a)(2)(iii) and that all submitted information is accurate and current to the best of my knowledge. Sam Krueger, Managing Director					
			Name and Position		
	3/22/07	D4-473-074-044-14-	Signature		
4.5	Date		Sigflature		
Part A. Fac	ility or Vessel Ir	<u>iformation</u>			
Name of Fac	Name of Facility or Vessel		Baldwin Energy Complex		
Person in Charge	Name of Person in	Charge	Sam Krueger		
of Facility	Position Managing Director				
or Vessel	Telephone No. (618) 785-3212	Alternate Telephone No. (618) 785-3244		
Facility Address or	Street	10901 Baldwin Ro	ad County Randolph		
Vessel Port of Registration	City	Baldwin	State IL Zip Code 62217		
Ų.	dstreet Number	for Facility	804405074		
Facility/Vess Location	1	Deg 38 Min	12 Scc 18 Vessel LORAN Coordinates 51 Sec 16		
Part B. Population Information					
Population Density	(Indicate by placing × 0 - 50	an "X" in the appropria	ion density within a one-mile radius of your facility or vessel ate blank below). 101 - 500 persons more than 1000 persons 501 - 1000 persons		
Sensitive Populations and Ecosystems Within One Mile Radius	(e.g., schools, hosp	e Populations or Econitals, wetlands, wildl			

to be considered stable in quantity and rate.

Name of Source:

CR-ERNS Number:

Baldwin Energy Complex - Unit 1

826306

Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.

For EACH source of a release of a hazardous substance or mixture from your facility or vessel, provide the following information on a SEPARATE sheet. Photocopy this page if necessary.

1. Indicate whether the release from this source is either:				
continuous without interr	uption X	OR	routine, anticipated, i	intermittent
2 Identify the activity(ice)	that regulte in the rel	anga from t	hia namana (a n. hatala	process, filling of a storage tank).
If malfunction, describe to continuous and stable in	the malfunction and ϵ	explain why	the release from the m	orocess, filling of a storage tank). alfunction should be considered
Baldwin generates electr	icity by the comb	ustion of	sub-bituminous coa	al in Unit 1.
	to the second se	Marcon and the state of the sta		
		White the Control of		
3. Identify below how you	established the patte	rn of releas	e and calculated release	e estimates.
X Past release data	Knowle operat	edge of the t ions and rel	facility/vessel's ease history	Engineering estimate
X AP-42	Best pro	ofessional j	udgment	Other (explain)
Reporting is based on ge	neration at maxir	num load	for a 24-hour perio	od.
				:
* Note that unanticipated ever	nts, such as spills. pi	pe ruptures	. eauipment failures. et	mergency shutdowns, or accidents,

do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular

SECTION II: SOURCE INFORMATION (continued)

CR-ERNS Number:

826306

Name of Source: E	aldwin Energy Complex - Unit 1		
Part B: Specific Information on the Sou	urce		
For the source identified above, provide the sheet for EACH source. Photocopy this pa	e following information. Please provide a SEPARATE age if necessary.		
affected by the release from this source. If your source	If medium (i.e., air, surface water, soil, or ground water) that is ce releases hazardous substances to more than one medium (e.g., a crelease to EACH medium as a separate source and complete H medium affected.		
AIR K (stack K or a ground-based area source.	e medium affected is air, please also specify whether the		
. If identified source is a stack, indicate stack	k height: 605 ft. feet or meters; OR		
If identified source is an area source (e.g., emissions), indicate surface area: so	waste pile, landfill, valves, tank vents, pump seals, fugitive quare feet or square meters.		
O CYMEACE WATED (stream lok			
SURFACE WATER, lake	c, or other)		
. If the release affects any surface water boo	dy, give the name of the water body.		
stream order: or average flow rate:	ce area of the lake in acres and the average depth in meters.		
Ø SOIL OR GROUND WATER			
If the release is on or under ground, indicate the dis	tance to the closest water well.		
Option	nal Information		
evaluating the risks associated with the continuous make conservative assumptions about the ap	e final rule; however, such information will assist EPA in tous release. If this information is not provided, EPA will opropriate values. Please note that the units specified below however, be certain that the units are clearly identified.		
For a stack release to air, provide the following information, if available: Inside diameter 19.5 ft. feet or meters Gas Exit Velocity 123 Mass feet/second or	For a release to surface water, provide the following information, if available: Average Velocity feet/second of Surface Water		

meters/second

Kelvin, or Celsius

Gas Temperature 325 F degrees Fahrenheit,

SECTION II: SOURCE INFORMATION (continued)

CR-ERNS Number:

826306

Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

Name of Source:

Baldwin Energy Complex - Unit 1

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance,

Total Quantity Number of Days Release Occurs (in lbs. or kg per day)* Normal Range

Lower Bound Upper Bound CASRN# Name of Hazardous Substance

(per year)

Released in Previous Year (in lbs. or kg)*

Months of the

Jan-Dec

26,990 lbs

Ammonia

7661-41-7

0

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Substance Components Hazardous Name of

CASRN#

(in lbs. or kg per day)* Upper Lower Bound Bound Components Percentage Weight

(in lbs. or kg per day)* Upper Lower Bound Bound Mixture

Normal Range of

Normal Range of

Number of Total Quantity of Days Release Mixture Released in Previous Year (in lbs. or kg) (per year) Occurs

Release

Months of the

Total Quantity of

Not Applicable

Name of Mixture

* Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.

Name of Source:

CR-ERNS Number:

Baldwin Energy Complex - Unit 2

826306

Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.

1. Indicate whether the release f	rom this source is	s either:			
continuous without interruptio	n X	OR	routine, anticipate	ed, intermittent	-
Identify the activity(ies) that If malfunction, describe the m continuous and stable in quan Baldwin generates electricity	alfunction and eatives tity and rate.*	xplain why	the release from th	e malfunction should be cons	e tank). sidered
 Identify below how you estat Past release data 	blished the patter				
Tubi ibiduo dalla			ease history	Engineering esting	nate
X AP-42	Best pro	fessional j	udgment	Other (explain)	
Reporting is based on genera	ation at maxim	num load	for a 24-hour pe	eriod.	

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

(continued)

CR-ERNS Number:

826306

Name of Source:	Baldwin Energy Complex - Unit 2
Part B: Specific Informati	ion on the Source
For the source identified abo	ove, provide the following information. Please provide a SEPARATE
sheet for EACH source. Ph	otocopy this page if necessary.
affected by the release from this sou wastepile releasing to air and groun	the environmental medium (i.e., air, surface water, soil, or ground water) that is urce. If your source releases hazardous substances to more than one medium (e.g., and water), treat the release to EACH medium as a separate source and complete s format for EACH medium affected.
	rea) If the medium affected is air, please also specify whether the based area source.
· If identified source is a st	tack, indicate stack height: 605 ft. feet or meters; OR
	area source (e.g., waste pile, landfill, valves, tank vents, pump seals, fugitive ace area: square feet or square meters.
SURFACE WATER (s	stream, lake, or other)
If the release affects any s	surface water body, give the name of the water body.
i i	ream, give the stream order or average flow rate, in cubic feet per second. average flow rate: cubic feet/second; OR
If the release affects a lal	ke, give the surface area of the lake in acres and the average depth in meters. acres and average depth of lake: meters.
O SOLL OB CROYER WATER	
SOIL OR GROUND WATER If the release is on or under groun	d, indicate the distance to the closest water well.
	Optional Information
The following information is evaluating the risks associated	not required in the final rule; however, such information will assist EPA in d with the continuous release. If this information is not provided, EPA will

make conservative assumptions about the appropriate values. Please note that the units specified below are suggested units. You may use other units; however, be certain that the units are clearly identified.

For a stack release to air, provide the following

Inside diameter

19.5 ft. feet or meters

Gas Exit Velocity 145 N/sec feet/second or

meters/second

information, if available:

Gas Temperature 306 F degrees Fahrenheit, Kelvin, or Celsius

For a release to surface water, provide the following information, if available:

Average Velocity feet/second of Surface Water

SOURCE INFORMATION (continued) SECTION II:

CR-ERNS Number:

826306

Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

Name of Source:

Baldwin Energy Complex - Unit 2

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Released in Previous Year Total Quantity Number of Days Release Occurs (in lbs. or kg per day)* Normal Range

Months of the

Jan-Dec Release

36,300 lbs

(in lbs. or kg)* Name of Hazardous Substance

(per year) 343 Lower Bound 0 Upper Bound 7661-41-7 CASRN#

Ammonia

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

(in lbs. or kg per day)* Normal Range of Upper Lower
Bound Bound Mixture (in lbs. or kg per day)* Normal Range of Components

Lower Upper Bound Percentage Weight CASRN#

Substance Components

Name of Mixture Not Applicable

Hazardous Name of

Release

(in lbs. or kg)

(per year)

Months of the

Number of 10tal Quantity of Days Release Mixture Released Occurs in Previous Year

Total Quantity of

* Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate,

CR-ERNS Number:

826306

Calculation of the SSI Trigger

For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.

Name of Hazardous Substance:

Ammonia CAS #7664-41-7

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

Upper Bound of the Normal Range of the Release (specify lbs., kg, or Ci)

Baldwin Energy Complex - Unit 1 Baldwin Energy Complex - Unit 2

112 lbs

TOTAL - SSI trigger for this hazardous substance release*:

* This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.

SECTION	I: GENERAI INFORMA		CR-ERNS Number: 625807
Date of I	nitial Release:	Ongoing	Date of Initial Call to NRC: 10/11/2002
Type of R	eport: Indicate b	elow the type of report y	you are submitting.
Initial V	Vritten Notification	First Anniversary Follow-up Report	Written Notification of a Change to Initial Notification Written Notification of a Change to Follow-up Report
quantity and	atement: I certify rate under the definit current to the best of	tions in 40 CFR 302.8(a)	bstances releases described herein are continuous and stable in (a) or 355.4(a)(2)(iii) and that all submitted information is Sam Krueger, Managing Director
			Name and Position
	2/28/2006		Sam Kruesu
	Date		Signature
Part A. Fac	<u>ility or Vessel I</u>	<u>nformation</u>	
	cility or Vessel		Baldwin Energy Complex
Person in Charge	Name of Person in	Charge	Sam Krueger
of Facility	Position	C	Managing Director
or Vessel	Telephone No. (61	8) 785-3212	Alternate Telephone No. (618) 785-3244
Facility Address or	Street	10901 Baldwin Roa	pad County Randolph
Vessel Port of Registration	City	Baldwin	State IL Zip Code 62217
Dun and Bra	dstreet Number	for Facility	804405074
Facility/Vess Location		Deg 38 Min Deg 89 Min	12 Sec 18 Vessel LORAN Coordinates 51 Sec 16
Part B. Pop	ulation Inform	ation	
Population Density	(Indicate by placing	g an "X" in the appropria	ation density within a one-mile radius of your facility or vessel iate blank below). 101 - 500 persons more than 1000 persons 501 - 1000 persons
Sensitive Populations and Ecosystems		ve Populations or Ecos pitals, wetlands, wildli	
Within One Mile Radius			

CR-ERNS Number:

625807

Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.

Name of Source:	Baldwin Energy Complex - Unit 1
1. Indicate whether the release	rom this source is either:
continuous without interrupti	n X OR routine, anticipated, intermittent
2. Identify the activity(ies) that If malfunction, describe the continuous and stable in qua	results in the release from this source (e.g., batch process, filling of a storage tank) alfunction and explain why the release from the malfunction should be considered tity and rate.*
Baldwin generates electricit	by the combustion of sub-bituminous coal in Unit 1.
· 	
•	
3. Identify below how you est	olished the pattern of release and calculated release estimates.
X Past release data	Knowledge of the facility/vessel's Engineering estimate operations and release history
X AP-42	Best professional judgment Other (explain)
Reporting is based on gene	ation at maximum load for a 24-hour period.

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

SECTION II: SOURCE INFORMATION (continued)	CR-ERNS Number: 625807
Name of Source: Baldy	vin Energy Complex - Unit 1
Part B: Specific Information on the Source	
	owing information. Please provide a SEPARATE
sheet for EACH source. Photocopy this page i	f necessary.
AFFECTED MEDIUM. Identify the environmental med	ium (i.e., air, surface water, soil, or ground water) that is cases hazardous substances to more than one medium (e.g., a se to EACH medium as a separate source and complete.
Source is a stack or a ground-based area source.	ium affected is air, please also specify whether the
If identified source is a stack, indicate stack heigh	ght: 605 ft. feet or meters; OR
	pile, landfill, valves, tank vents, pump seals, fugitive
SURFACE WATER (stream, lake	ov other
(Siteam, lake	, or other)
If the release affects any surface water body, gi	ve the name of the water body.
stream order: or average flow rate: If the release affects a lake, give the surface area	of the lake in acres and the average depth in meters.
surface area of lake: acres and average de	epth of lake: meters.
SOIL OR GROUND WATER	
If the release is on or under ground, indicate the distance	to the closest water well.
Optional In	formation
The following information is not required in the final evaluating the risks associated with the continuous re make conservative assumptions about the appropr are suggested units. You may use other units; however	lease. If this information is not provided, EPA will interest that the units specified below
For a stack release to air, provide the following information, if available: Inside diameter 19.5 ft. feet or meters Gas Exit Velocity 123 from feet/second or meters/second Gas Temperature 325 f degrees Fahrenheit,	For a release to surface water, provide the following information, if available: Average Velocity feet/second of Surface Water
Kelvin, or Celsius)

SECTION II: SOURCE INFORMATION (continued)

CR-ERNS Number:

625807

Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

Name of Source:

Baldwin Energy Complex - Unit 1

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

)	,			Z .			
Mercury Compounds	Hydrogen Fluoride	Barium Compounds	Arsenic Compounds	Name of Hazardous Substance			
7439-97-6	7664-39-3	7440-39-3	7440-38-2	nce CASRN#			SON COMMISSION INC.
0.65 lbs.	522 lbs.	27 lbs.	3 lbs.	Upper Bound	(in lbs. or kg per day)*	Normal Range	cuses of Figure Gods
0	0	0	0	Lower Bound	g per day)*	Range	Substances + W
336	336	336	336	(per year)	Release Occurs	Number of Days	Canac for Lacinites
209 lbs.	166,898 lbs.	8,733 lbs	871 lbs.	(in lbs. or kg)*	Year	Total Quantity	
Jan. thru Dec.	Jan. thru Dec.	Jan. thru Dec.	Jan. thru Dec.	Release	Months of the		

Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.) List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting

			•					Not Applicable
Refease	(in lbs. or kg)	(per year)	Bound Bound	Bound Bound	Percentage	CASKN#	Components	Name of Mixing
of the	in Previous Year	Occurs	Upper Lower	Upper Lower	Weight	-	Substance	
Months	Days Release Mixture Released	Days Release	(in lbs. or kg per day)*	in lbs. or kg per day)*			Hazardous	
	Total Quantity of	Number of	Mixture	Components			Name of	- Person
			Normal Range of	Normal Range of			, ,	

^{*} Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.

CR-ERNS Number:

625807

Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.

Name of Source:	Baldwin Energy Complex - Unit 2
Indicate whether the release from continuous without interruption	om this source is either: X OR routine, anticipated, intermittent .
If malfunction, describe the ma continuous and stable in quanti	
Baidwin generates electricity i	by the combustion of sub-bituminous coal in Unit 2.
3. Identify below how you estab	lished the pattern of release and calculated release estimates.
Past release data	Knowledge of the facility/vessel's Engineering estimate operations and release history
AP-42	Best professional judgment Other (explain)
reporting is based on genera	tion at maximum load for a 24-hour period.

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

SECTION II: SOURCE INFORMATION (continued)

CR-ERNS Number:

625807

Name of Source	Baldwin Energy Complex - Unit 2
Part B: Specific	Information on the Source
For the source id	entified above, provide the following information. Please provide a SEPARATE source. Photocopy this page if necessary.
affected by the releas wastepile releasing to	UM. Identify the environmental medium (i.e., air, surface water, soil, or ground water) that is e from this source. If your source releases hazardous substances to more than one medium (e.g., a pair and ground water), treat the release to EACH medium as a separate source and complete, and C, of this format for EACH medium affected.
	ckK or area) If the medium affected is air, please also specify whether the or a ground-based area source.
. If identified	d source is a stack , indicate stack height: 605 ft. feet or meters; OR
If identified	d source is an area source (e.g., waste pile, landfill, valves, tank vents, pump seals, fugitive, indicate surface area: square feet or square meters.
O SURFACE WA	TER (stream, lake, or other)
. If the relea	se affects any surface water body, give the name of the water body.
stream ord	se affects a stream, give the stream order or average flow rate, in cubic feet per second. er: or average flow rate: cubic feet/second; OR
	se affects a lake, give the surface area of the lake in acres and the average depth in meters. a of lake: acres and average depth of lake: meters.
SOIL OR GRO If the release is on o	UND WATER or under ground, indicate the distance to the closest water well.
	Optional Information
evaluating the make conserva	information is not required in the final rule; however, such information will assist EPA in risks associated with the continuous release. If this information is not provided, EPA will ative assumptions about the appropriate values. Please note that the units specified below units. You may use other units; however, be certain that the units are clearly identified.
information Inside diam Gas Exit Ve	locity 145 N/sac feet/second or meters/second or meters/second
Gas Temper	rature 306 F degrees Fahrenheit, Kelvin or Celsius

SECTION II: SOURCE INFORMATION (continued)

CR-ERNS Number:

625807

Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

Name of Source:

Baldwin Energy Complex - Unit 2

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

	r Months of the	Release	Jan. thru Dec.	Jan. thru Dec.	Jan. thru Dec.	Jan. thru Dec.
Total Quantity	Released in Previous Year	(in lbs. or kg)*	813 lbs.	8,152 lbs.	155,778 lbs.	195 lbs.
Number of Days	Release Occurs	(per year)	312	312	312	312
Normal Range	kg per day)*	Lower Bound	0	0	0	0
Norm	(in Ibs. or l	Upper Bound	3 lbs.	27 lbs.	522 lbs.	0.65 lbs.
		CASRN#	440-38-2	7440-39-3	664-39-3	439-97-6
u-vivabileksia	· · · · · · · · · · · · · · · · · · ·	Name of Hazardous Substance	Arsenic Compounds 7	2	Hydrogen Fluoride 7	Mercury Compounds 7

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

				Normal Kan	nge of	Normal Kange of			
	Name of			Components	ants	Mixture	Number of	Total Quantity of	
	Hazardous		ತ	n lbs. or kg pe		(in lbs. or kg per day)*	Days Release	Mixture Released	Months
; ;	Substance		Weight	Upper L		Upper Lower	Occurs	in Previous Year	ofthe
Name of Mixture	Components	CASRN#	out.	Bound		Bound Bound	(per year)	(in lbs, or kg)	Release
Not Applicable									

^{*} Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.

CR-ERNS Number:

625807

Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.

Name of Source:	Baldwin Energy Complex - Unit 3
1. Indicate whether the release f	from this source is either:
continuous without interruption	on X OR routine, anticipated, intermittent
2. Identify the activity(ies) that If malfunction, describe the malfunction continuous and stable in quantity	results in the release from this source (e.g., batch process, filling of a storage tank nalfunction and explain why the release from the malfunction should be considered atity and rate.*
aldwin generates electricity	y by the combustion of sub-bituminous coal in Unit 3.
•	
•	
3. 7.1. (*0.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	
3. Identify below how you esta	blished the pattern of release and calculated release estimates.
3. Identify below how you esta Past release data	
	Knowledge of the facility/vessel's Engineering estimate
Past release data **AP-42	Knowledge of the facility/vessel's Engineering estimate operations and release history
Past release data AP-42	Knowledge of the facility/vessel's Engineering estimate operations and release history Best professional judgment Other (explain)
Past release data AP-42	Knowledge of the facility/vessel's Engineering estimate operations and release history Best professional judgment Other (explain)

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

SECTION II: SOURCE INFORMATION (continued)

CR-ERNS Number:

625807

Name of Source:	Baldwin Energy Complex - Unit 3
Part B: Specific Information (on the Source
For the source identified above, p sheet for EACH source. Photoc	provide the following information. Please provide a SEPARATE opy this page if necessary.
affected by the release from this source.	nvironmental medium (i.e., air, surface water, soil, or ground water) that is If your source releases hazardous substances to more than one medium (e.g., a ter), treat the release to EACH medium as a separate source and complete that for EACH medium affected.
Source is a stack or a ground-based) If the medium affected is air, please also specify whether the area source.
If identified source is a stack,	indicate stack height: 605 ft. feet or meters; OR
If identified source is an area s	source (e.g., waste pile, landfill, valves, tank vents, pump seals, fugitive ea: square feet or square meters.
O SURFACE WATER (stream	n, lake, or other)
	ce water body, give the name of the water body.
stream order: or avera	give the stream order or average flow rate, in cubic feet per second. ge flow rate: cubic feet/second; OR we the surface area of the lake in acres and the average depth in meters.
1	es and average depth of lake: meters.
O SOUL OD CROUND MATER	
SOIL OR GROUND WATER If the release is on or under ground, ind	licate the distance to the closest water well.
	Optional Information
evaluating the risks associated with make conservative assumptions a	quired in the final rule; however, such information will assist EPA in the continuous release. If this information is not provided, EPA will about the appropriate values. Please note that the units specified below other units; however, be certain that the units are clearly identified.
Gas Temperature 310 F degree	following information, if available: r meters Average Velocity feet/second cond or of Surface Water s/second

(continued)

CR-ERNS Number:

625807

Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

Name of Source:

Baldwin Energy Complex - Unit 3

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

		Norma	i Kange	Number of Days	Total Quantity	
		(in lbs. or k	g per day)*	Release Occurs	Released in Previous Year	Months of the
Name of Hazardous Substance	CASRN#	Upper Bound	Upper Bound Lower Bound	(per year)	(in lbs. or kg)*	Release
Arsenic Compounds 7	7440-38-2	3 lbs.	0	327	866 lbs.	Jan. thru Dec.
Barium Compounds 7	7440-39-3	28 lbs.	0	327	8.680 lbs.	Jan. thru Dec.
Hydrogen Fluoride 7	7664-39-3	535 lbs.	0	327	165.876 lbs.	Jan. thru Dec.
Mercury Compounds 7	7439-97-6	0.68 lbs.	. 0	327	208 lbs.	Jan. thru Dec.

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

-				Nonnall	Normal Kange of	Normal Kange of			
	Name of			Compc	onents		Number of	Total Quantity of	
	Hazardons		_	in lbs. or kg	g per day)*	(in lbs. or kg per day)*	Days Release	Mixture Released	Months
;	Substance		Weight	Upper	Lower	Upper Lower	Occurs	in Previous Year	ofthe
Name of Mixture	Components	CASRN#	<u>Percentage</u>	Bound	ge Bound Bound	Bound Bound	(per year)	(in lbs. or kg)	Release
Not Applicable						-			

^{*} Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.

CR-ERNS Number:

625807

Calculation of the SSI Trigger

For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.

Name of Hazardous Substance:

Arsenic Compounds CAS #7440-38-2

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources dentified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

Upper Bound of the Normal Range of the Release (specify lbs., kg. or Ci)

Baldwin Energy Complex - Unit 1 3 lbs
Baldwin Energy Complex - Unit 2 3 lbs
Baldwin Energy Complex - Unit 3 3 lbs

TOTAL - SSI trigger for this hazardous substance release*:

9 lbs

^{*} This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.

CR-ERNS Number:

625807

Calculation of the SSI Trigger

For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.

Name of Hazardous Substance:

Barium CAS # 7440-39-3

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

Upper Bound of the Normal Range of the Release (specify lbs., kg, or Ci)

Baldwin Energy Complex - Unit 1 Baldwin Energy Complex - Unit 2 Baldwin Energy Complex - Unit 3

27 lbs 27 lbs 28 lbs

TOTAL - SSI trigger for this hazardous substance release*:

83 lbs

^{*} This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.

CR-ERNS Number:

625807

Calculation of the SSI Trigger

For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.

Name of Hazardous Substance:

Hydrogen Fluoride CAS # 7664-39-3

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources dentified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

<u>Upper Bound of the Normal Range of</u> the Release (specify lbs., kg, or Ci)

Baldwin Energy Complex - Unit 1
Baldwin Energy Complex - Unit 2
Baldwin Energy Complex - Unit 3

522 lbs 522 lbs 535 lbs

TOTAL - SSI trigger for this hazardous substance release*:

1579 lbs

^{*} This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.

CR-ERNS Number:

625807

Calculation of the SSI Trigger

For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.

Name of Hazardous Substance:

Mercury Compounds CAS # 7439-97-6

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

Upper Bound of the Normal Range of the Release (specify lbs., kg, or Ci)

Baldwin Energy Complex - Unit 1 Baldwin Energy Complex - Unit 2 Baldwin Energy Complex - Unit 3

0.65 lbs 0.65 lbs 0.68 lbs

TOTAL - SSI trigger for this hazardous substance release* :

1.98 lbs

^{*} This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.

SECTION	: GENERAL INFORMATION	N	CR-ERNS Number: 625807
Date of In	itial Release:	ngoing	Date of Initial Call to NRC: 10/11/2002
	ritten Notification F	e type of report you irst Anniversary ollow-up eport	written Notification of a Change to Initial Notification Interest of the submitting. Written Notification of a Change to Follow-up Report
quantity and ra		40 CFR 302.8(a) o	ances releases described herein are continuous and stable or 355.4(a)(2)(iii) and that all submitted information is Keith A. McFarland, Vice President Name and Position
	2/23/2005 Date		Signature
Part A. Faci	lity or Vessel Inforr	<u>nation</u>	χ.
Name of Fac	ility or Vessel		Baldwin Energy Complex
Person in Charge of Facility or Vessel	Name of Person in Charg Position Telephone No. (618)	e 785-3212	Sam Krueger Managing Director Alternate Telephone No. (618) 785-3244
Facility Address or		0901 Baldwin Road	and the second s
Vessel Port of Registration	City	Baldwin	State IL Zip Code 62217
Dun and Bradstreet Number for Facility 804405074			
Facility/Vess Location	Latitude Deg _ Longitude Deg _		12 Sec 18 Vessel LORAN Coordinate 51 Sec 16
Part B. Pop	ulation Information	<u>n</u>	
Population Density	Choose the range that des (Indicate by placing an "X	" in the appropriat ons	ion density within a one-mile radius of your facility or vest ate blank below). 101 - 500 persons more than 1000 pers 501 - 1000 persons
Sensitive Populations and Ecosystems Within One Mile Radius	Sensitive Pop (e.g., schools, hospitals,	oulations or Ecos , wetlands, wildli	STATE AND ADDITIONAL THROUGH T

) .

SECTION II: SOURCE INFORMATION (continued)

CR-ERNS Number:

625807

Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

Name of Source:

Baldwin Energy Complex - Unit 2

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Released in Previous Year Total Quantity Number of Days Release Occurs (in lbs. or kg per day)* Normal Range

Jan. thru Dec. Months of the (in lbs. or kg)* 125,731 lbs. (per year) 344 Lower Bound Upper Bound 386 lbs. Name of Hazardous Substance CASRN # 7664-39-3 Hydrogen Fluoride

うして mercult - No has 4658 222 List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Total Quantity of Number of Potal Quantity of Days Release Mixture Released Occurs in Previous Year (in lbs. or kg) (per year) (in lbs. or kg per day)* Upper Lower Bound Bound Normal Range of Mixture (in lbs. or kg per day)*
Upper Lower
Bound Bound Normal Range of Components Percentage CASRN# Substance Components Hazardous Name of Name of Mixture

Release

Months of the

Not Applicable

^{*} Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.

SECTION II:	SOURCE
	INFORMATION
	(continued)

CR-ERNS Number:

625807

Name of Source:	Baldwin Energy Complex - Unit 2
Part B: Specific Information	n on the Source
For the source identified above sheet for EACH source. Phot	e, provide the following information. Please provide a SEPARATE cocopy this page if necessary.
affected by the release from this source	e environmental medium (i.e., air, surface water, soil, or ground water) that is ce. If your source releases hazardous substances to more than one medium (e.g., a water), treat the release to EACH medium as a separate source and complete format for EACH medium affected.
AIR _x (stack _x or area source is a stack or a ground-bas	a) If the medium affected is air, please also specify whether the sed area source.
If identified source is a stac	ck, indicate stack height: 605 ft. feet or meters; OR
I I	ea source (e.g., waste pile, landfill, valves, tank vents, pump seals, fugitive e area:square feet or square meters.
SURFACE WATER (str	ream, lake, or other)
. If the release affects any su	irface water body, give the name of the water body.
	am, give the stream order or average flow rate, in cubic feet per second. verage flow rate: cubic feet/second; OR
If the release affects a lake	e, give the surface area of the lake in acres and the average depth in meters.
surface area of lake:	acres and average depth of lake: meters.
SOIL OR GROUND WATER	
	, indicate the distance to the closest water well.
	Optional Information

The following information is not required in the final rule; however, such information will assist EPA in evaluating the risks associated with the continuous release. If this information is not provided, EPA will make conservative assumptions about the appropriate values. Please note that the units specified below are suggested units. You may use other units; however, be certain that the units are clearly identified.

For a stack release to air, provide the following
information, if available:

 $\begin{array}{ll} \text{Inside diameter} & \underline{\underline{19.5\,ft}} & \text{feet or meters} \\ \text{Gas Exit Velocity} & \underline{\underline{115\,ft/sec}} & \text{feet/second or} \end{array}$

Gas Temperature 306 F degrees Fahrenheit, Kelvin, or Celsius For a release to surface water, provide the following information, if available:

Average Velocity _____ feet/second

of Surface Water

SECTION II: SOURCE INFORMATION (continued)

CR-ERNS Number:

625807

Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

Name of Source:

Baldwin Energy Complex - Unit 2

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

(in lbs. or kg per day)* Normal Range

Upper Bound Lower Bound

Number of Days Release Occurs

Released in Previous Year Total Quantity

Months of the (in lbs. or kg)*

Jan. thru Dec.

Barium

Name of Hazardous Substance

7440-39-3

CASRN#

(per year)

The Company of the property of the second

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Substance Components Hazardous Name of

CASRN#

(in Ibs. or kg per day)* Lower Components Upper Bound Percentage Weight

(in lbs. or kg per day)* Upper Lower Upper Lower
Bound Bound Mixture

Normal Range of

Normal Range of

Total Quantity of Number of Total Quantity of Days Release Mixture Released in Previous Year (in lbs. or kg) (per year) Occurs

Release

Months of the

Not Applicable

Name of Mixture

^{*} Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.

SECTION II: SOURCE INFORMATION	CR-ERNS Number: 625807
Part A: Basis for Asserting the Release is Con For EACH source of a release of a hazardous sub- vessel, provide the following information on a SEI necessary.	stance or mixture from your facility or
Name of Source: Baldwi	n Energy Complox - Unit 3
Indicate whether the release from this source is either: continuous without interruption X OR	routine, anticipated, intermittent
Identify the activity(ics) that results in the release from If malfunction, describe the malfunction and explain whe continuous and stable in quantity and rate.* Baldwin generates electricity by the combustion of the combu	ny the release from the malfunction should be considered
3. Identify below how you established the pattern of release data Knowledge of the operations and release data	e facility/vessel's Engineering estimate
AP-42 Best professional Reporting is based on generation at maximum loa	

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

CR-ERNS Number:

625807

Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.

Name of Source:	Baldwin Energy Complex - Unit 3
. Indicate whether the release from t	his source is either:
continuous without interruption	X OR routine, anticipated, intermittent
	ts in the release from this source (e.g., batch process, filling of a storage tank action and explain why the release from the malfunction should be considered and rate.*
aldwin generates electricity by t	the combustion of coal in Unit 3.
G.M.	M (1108
<i>,</i>	
3. Identify below how you establish	ed the pattern of release and calculated release estimates.
Past release data	Knowledge of the facility/vessel's Engineering estimate operations and release history
X AP-42	Best professional judgment Other (explain)
eporting is based on generation	n at maximum load for a 24-hour period.
eporting is based on generation	n at maximum load for a 24-hour period.

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

SECTION II:	SOURCE
	INFORMATION
	(continued)

Inside diameter

19.5 ft. feet or meters

meters/second

Kelvin, or Celsius

Gas Exit Velocity 126ft/sec feet/second or

Gas Temperature 335 F degrees Fahrenheit,

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Name of Source: Baldwin Energy Complex - Unit 3					
Part B: Specific Information on the Source					
For the source identified above, provide the follower sheet for EACH source. Photocopy this page is	lowing information. Please provide a SEPARATE for necessary.				
AFFECTED MEDIUM. Identify the environmental med affected by the release from this source. If your source rel wastepile releasing to air and ground water), treat the releasescition II, Parts A, B, and C, of this format for EACH medium.	eases hazardous substances to more than one medium (e.g., a ase to EACH medium as a separate source and complete				
AIR (stack) or area) If the med source is a stack or a ground-based area source.	lium affected is air, please also specify whether the				
If identified source is a stack, indicate stack her	ght: 605 ft. feet or meters; OR				
If identified source is an area source (e.g., waste emissions), indicate surface area: square	te pile, landfill, valves, tank vents, pump seals, fugitive e feet or square meters.				
SURFACE WATER, lake					
If the release affects any surface water body, g	give the name of the water body.				
If the release affects a stream, give the stream stream order: or average flow rate:	order or average flow rate, in cubic feet per second cubic feet/second; OR				
If the release affects a lake, give the surface are surface area of lake: acres and average	ea of the lake in acres and the average depth in meters. depth of lake: meters.				
SOIL OR GROUND WATER					
If the release is on or under ground, indicate the distance	e to the closest water well.				
Ontional	nformation				
	information				
evaluating the risks associated with the continuous	al rule; however, such information will assist EPA in release. If this information is not provided, EPA will priate values. Please note that the units specified below ever, be certain that the units are clearly identified.				
For a stack release to air, provide the following information, if available:	For a release to surface water, provide the following information, if available:				

Average Velocity _____ feet/second

of Surface Water

CR-ERNS Number:

625807

Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

Name of Source:

Baldwin Energy Complex - Unit 3

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Total Quantity Number of Days Release Occurs (in lbs. or kg per day)* Normal Range

Months of the Release Released in Previous Year (in lbs. or kg)*

131,189 lbs. (per year) Lower Bound Upper Bound 396 lbs. Name of Hazardous Substance CASRN # 7664-39-3 Hydrogen Fluoride

Jan. thru Dec.

Thirty ON THEST MERCH / - NO Change

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Normal Range of Mixture (in lbs. or kg per day)* Normal Range of Components Hazardous Name of Name of Mixture

Weight Upper Lower CASRN# Substance Components

Not Applicable

Number of 10tal Quantity of Days Release Mixture Released (per year) Occurs (in lbs. or kg per day)* Upper Lower Bound Bound

Release

Months of the

Total Quantity of

in Previous Year (in lbs. or kg) * Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.

CR-ERNS Number:

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Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

Name of Source:

Baldwin Energy Complex - Unit 3

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

(in lbs. or kg per day)* Normal Range

Total Quantity Number of Days Release Occurs (per year)

Months of the Released in Previous Year (in lbs. or kg)*

Release

Name of Hazardous Substance CASRN #

Upper Bound 7440-39-3

Lower Bound

Barium

Jan. thru Dec.

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Normal Range of Components

> Hazardous Name of

(in lbs. or kg per day)*
Weight Upper Lower
Percentage Bound Bound

(in lbs. or kg per day)* Upper Lower
Bound Bound Mixture

Normal Range of

Total Quantity of Number of Total Quantity of Days Release Mixture Released in Previous Year (in lbs. or kg) Occurs

Months

CASRN# Substance Components

(per year)

Release ofthe

Not Applicable

Name of Mixture

^{*} Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.

CR-ERNS Number:

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Calculation of the SSI Trigger

For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.

Name of Hazardous Substance:

Hydrogen Fluoride CAS # 7664-39-3

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

<u>Upper Bound of the Normal Range of the Release (specify lbs., kg, or Ci)</u>

Baldwin Energy Complex - Unit 1 Baldwin Energy Complex - Unit 2 Baldwin Energy Complex - Unit 3 386 lbs 386 lbs 396 lbs

TOTAL - SSI trigger for this hazardous substance release*: ______1168 lbs

^{*} This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.

CR-ERNS Number:

625807

Calculation of the SSI Trigger

For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.

Name of Hazardous Substance:

Barium CAS # 7440-39-3

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

<u>Upper Bound of the Normal Range of</u> the Release (specify lbs., kg, or Ci)

Baldwin Energy Complex - Unit 1 21 lbs
Baldwin Energy Complex - Unit 2 21 lbs
Baldwin Energy Complex - Unit 3 22 lbs

TOTAL - SSI trigger for this hazardous substance release* : ____

64 lbs

^{*} This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.

SECTION II: SOURCE INFORMATION	CR	-ERNS Number:	625807
Part A: Basis for Asserting the Relea For EACH source of a release of a hazar vessel, provide the following information necessary.	dous substance of	r mixture from your	facility or
Name of Source:	Baldwin Energ	y Complex - Unit 1	
I. Indicate whether the release from this source continuous without interruption		anticipated, intermitten	
2. Identify the activity(ies) that results in the relifemalfunction, describe the malfunction and continuous and stable in quantity and rate.*	clease from this source explain why the release	e (e.g., batch process, fil ase from the malfunction	ling of a storage tank). should be considered
Baldwin generates electricity by the com	bustion of sub-bit	uminous coal in Unit	1.
The property of the state of th			
3. Identify below how you established the pat	tern of release and cal	culated release estimates	a name and a second
	rledge of the facility/v ations and release hist		ngineering estimate
X AP-42 Best p	orofessional judgmen	t	Other (explain)
Reporting is based on generation at max	imum load for a 2	4-hour period.	
* Note that unanticipated events, such as spills, j	pipe ruptures, equipn	ient failures, emeroency.	shutdowns or accident

* Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

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Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.

	urce: Baldwin Energy Complex - Unit 1			
1. Indicate whether the release from	n this source is eithe			
continuous without interruption	X	OR routine, anticipate	d, intermittent	
Identify the activity(ies) that res If malfunction, describe the malf continuous and stable in quantity	function and explain		ch process, filling of a storage tank e malfunction should be considered	
aldwin generates electricity by	y the combustion	n of coal in Unit 1.		
3. Identify below how you establi	shed the pattern of r	elease and calculated rel	ease estimates.	
Y Past release data		f the facility/vessel's nd release history	Engineering estimate	
			~	
X AP-42	Best professi	onal judgment	Other (explain)	

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

SECTION II:	SOURCE
	INFORMATION
	(continued)

CR-ERNS Number:

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Name of Source:	Baldwin Energy Complex - Unit 1
Part B: Specific Information	on on the Source
For the source identified abov sheet for EACH source. Pho	ve, provide the following information. Please provide a SEPARATE stocopy this page if necessary.
affected by the release from this sour wastepile releasing to air and ground	he environmental medium (i.e., air, surface water, soil, or ground water) that is ree. If your source releases hazardous substances to more than one medium (e.g., a water), treat the release to EACH medium as a separate source and complete format for EACH medium affected.
AIR _x (stack _x or are source is a stack or a ground-ba	ea) If the medium affected is air, please also specify whether the used area source.
If identified source is a sta	ack, indicate stack height: 605 ft. feet or meters; OR
1	rea source (e.g., waste pile, landfill, valves, tank vents, pump seals, fugitive ce area: square feet or square meters.
SURFACE WATER (st	tream, lake, or other)
If the release affects any s	surface water body, give the name of the water body.
	eam, give the stream order or average flow rate, in cubic feet per second. average flow rate: cubic feet/second; OR
	xe, give the surface area of the lake in acres and the average depth in meters. _ acres and average depth of lake: meters.
SOIL OR GROUND WATER	X
	d, indicate the distance to the closest water well.
	Optional Information

The following information is not required in the final rule; however, such information will assist EPA in evaluating the risks associated with the continuous release. If this information is not provided, EPA will make conservative assumptions about the appropriate values. Please note that the units specified below are suggested units. You may use other units; however, be certain that the units are clearly identified.

For a stack release to air, provide the following
information, if available:

Inside diameter 19.5 ft. feet or meters
Gas Exit Velocity 123 ft/sec feet/second or

meters/second

Gas Temperature 325 F degrees Fahrenheit, Kelvin, or Celsius For a release to surface water, provide the following information, if available:

Average Velocity ______ feet/second

of Surface Water

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625807

Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

Name of Source:

Baldwin Energy Complex - Unit 1

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Total Quantity Number of Days Release Occurs (in lbs. or kg per day)* Normal Range

Months of the Released in Previous Year

(in lbs. or kg)* 103,453 lbs. (per year) Lower Bound Upper Bound 386 lbs. Name of Hazardous Substance CASRN # 7664-39-3 Hydrogen Fluoride

Jan. thru Dec.

ARSENCE TO CONTRACT NERCYPT

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Normal Range of Mixture (in lbs. or kg per day)* Normal Range of Components Hazardous Name of

Lower Weight Upper Percentage Bound CASRN# Substance Components

> Name of Mixture Not Applicable

Number of Total Quantity of Days Release Mixture Released Occurs in Previous Year (in lbs. or kg) (per year) (in lbs. or kg per day)*
Upper Lower
Bound Bound

Release

Months of the

Total Quantity of

* Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.

CR-ERNS Number:

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Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

Name of Source:

Baldwin Energy Complex - Unit 1

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

(in lbs. or kg per day)* Normal Range

Number of Days Release Occurs (per year)

Released in Previous Year Total Quantity (in lbs. or kg)*

Months of the

Name of Hazardous Substance Barium

Upper Bound 7440-39-3 CASRN#

Lower Bound

Jan. thru Dec.

Rolling Synthether has been Mer circol as making the

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Substance Components Hazardous Name of

(in lbs. or kg per day)*
Weight Upper Lower
Percentage Bound Bound Components

CASRN#

(in lbs. or kg per day)* Upper Lower

Bound Bound Mixture

Normal Range of

Normal Range of

Number of 10tal Quantity of Days Release Mixture Released Total Quantity of in Previous Year (in lbs. or kg) (per year) Occurs

Release Months of the

Not Applicable

Name of Mixture

^{*} Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.

to be considered stable in quantity and rate.

SECTION II: SOURCE INFORMATION	CR-ERNS Number: 625807
Part A: Basis for Asserting the Release is Cor For EACH source of a release of a hazardous subs vessel, provide the following information on a SEF necessary.	stance or mixture from your facility or
Name of Source: Baldwi	n Energy Complex - Unit 2
Indicate whether the release from this source is either: continuous without interruption X OR	routine, anticipated, intermittent
 Identify the activity(ics) that results in the release from If malfunction, describe the malfunction and explain whe continuous and stable in quantity and rate.* 	this source (e.g., batch process, filling of a storage tank). y the release from the malfunction should be considered
3. Identify below how you established the pattern of relea	ase and calculated release estimates.
Past release data Knowledge of the operations and r	e facility/vessel's Engineering estimate
AP-42 Best professional	judgment Other (explain)
Reporting is based on generation at maximum loa * Note that unanticipated events, such as spills, pipe rupture do not qualify for reduced reporting under CERCLA section	es, equipment failures, emergency shutdowns, or accident

CR-ERNS Number:

625807

Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.

Name of Source:	Baldwin Energy Complex - Unit 2		
1. Indicate whether the release from	this source is either:	2012	
continuous without interruption	X OR	routine, anticipate	ed, intermittent
Identify the activity(ies) that result If malfunction, describe the malfur continuous and stable in quantity a	nction and explain wh		ch process, filling of a storage tank) e malfunction should be considered
Baldwin generates electricity by	the combustion of	f coal in Unit 2.	
φ		1706	
*			
	kirkhaddhaadghddddiggdaa.		The state of the s
3. Identify below how you establish	ned the pattern of relea	ase and calculated re	lease estimates.
	Knowledge of th		Engineering estimate
Fast letease data	operations and i		Engineering estimate
X AP-42	Best professiona	l judgment	Other (explain)
Reporting is based on generation	on at maximum loa	nd for a 24-hour p	eriod.
	•		

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

SECTION I	: GENERAL INFORMAT	ION		CR-ERNS Number: 625807
Date of Initial Release: Ongoing			Date of Initial Call to NRC: 10/11/2002	
Type of Report: Indicate below the type of report you are submitting. First Anniversary Written Notification of a Change to Report Initial Notification Follow-up Report First Anniversary Written Notification of a Change to Follow-up Report				
Signed Statement: I certify that the hazardous substances releases described herein are continuous and stable in quantity and rate under the definitions in 40 CFR 302.8(a) or 355.4(a)(2)(iii) and that all submitted information is accurate and current to the best of my knowledge. Richard W. Eimer, Jr., Sr. Vice President				
1/26/2004 Date Name and Position Signature				
Part A. Faci	lity or Vessel Inf	formation		
Name of Facility or Vessel Baldwin Energy Complex				
Person in Charge of Facility or Vessel	Name of Person in Charge Position Telephone No. (618) 785-3212 Sam Krueger Managing Director Alternate Telephone No. (618) 785-3244			And the state of t
Facility Address or Vessel	Street	10901 Baldwin R	oad.	
Port of Registration	City	Baldwin		State IL Zip Code 62217
	dstreet Number f	or Facility		804405074
Facility/Vesso Location	Facility/Vessel Latitude Deg 38 Min 12 Sec 18 Vessel LORAN Coordinates Location Deg 89 Min 51 Sec 16			
Part B. Population Information				
Population Density Choose the range that describes the population density within a one-mile radius of your facility or vessel (Indicate by placing an "X" in the appropriate blank below). 50 - 50 persons 101 - 500 persons more than 1000 persons 51 - 100 persons 501 - 1000 persons				
Sensitive Populations and Ecosystems Within One Mile Radius	Sensitive (e.g., schools, hosp	e Populations or E itals, wetlands, wi		

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Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.

Name of Source:	Baldwin Energy Complex - Unit 1			
1. Indicate whether the release fi	om this source is	either:		
continuous without interruption	1 X	OR routine, anticipate	ed, intermittent	
	alfunction and ex		tch process, filling of a storage tank). ne malfunction should be considered	
Baldwin generates electricity	by the combu	stion of sub-bitiminous	coal in Unit 1.	
3. Identify below how you esta	blished the patter	n of release and calculated re	lease estimates.	
X Past release data		dge of the facility/vessel's ons and release history	Engineering estimate	
X AP-42	Best pro	fessional judgment	Other (explain)	
Reporting is based on gener	ation at maxim	ոսm load for a 24-hour բ	period.	

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

to be considered stable in quantity and rate.

Name of Source:

CR-ERNS Number:

Baldwin Energy Complex - Unit 2

625807

Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.

For EACH source of a release of a hazardous substance or mixture from your facility or vessel, provide the following information on a SEPARATE sheet. Photocopy this page if necessary.

1. Indicate whether the release from	this source is eitl	ner:	
continuous without interruption _	X	OR routine, anticipat	ted, intermittent
		CONTRACTOR OF THE PROPERTY OF	1 0111 0
2. Identify the activity(ies) that results If malfunction, describe the malficontinuous and stable in quantity	unction and expla	from this source (e.g., bain why the release from t	atch process, filling of a storage tank). the malfunction should be considered
Baldwin generates electricity by	y the combustion	on of sub-bitiminous	coal in Unit 2.
3. Identify below how you establish	shed the pattern o	f release and calculated r	elease estimates.
Past release data		of the facility/vessel's and release history	Engineering estimate
X AP-42	Best profes	sional judgment	Other (explain)
Reporting is based on generati	ion at maximur	n load for a 24-hour	period.
- HOMER STATE OF THE STATE OF T	AND THE PROPERTY OF THE PROPER		

* Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular

CR-ERNS Number:

625807

Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.

Name of Source:	Baldwin Energy Complex - Unit 3
Indicate whether the release from the second s	nis source is either:
continuous without interruption	X OR routine, anticipated, intermittent
If malfunction, describe the malfun continuous and stable in quantity as	
aldwin generates electricity by t	he combustion of sub-bitiminous coal in Unit 3.
3 Identify below how you establish	
·	ed the pattern of release and calculated release estimates. Knowledge of the facility/vessel's Engineering estimate operations and release history
Past release data	ed the pattern of release and calculated release estimates. Knowledge of the facility/vessel's Engineering estimate

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

(continued)

CR-ERNS Number:

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Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

Name of Source:

Baldwin Energy Complex - Units 1, 2 and 3

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

	Months of the	Release	Jan. thru Dec.			
Total Quantity	Released in Previous Year	(in lbs. or kg)*		629 lbs	511 lbs	919 ey
Number of Days	Release Occurs	(per year)		323	252	342
Normal Kange	(in lbs. or kg per day)*	Upper Bound Lower Bound		0	0	0
Morri	(in lbs. or	Upper Bound		e lbs	sql 9	2 lbs
		CASRN#	7440-38-2			
		Name of Hazardous Substance	Arsenic	Unit 1	Unit 2	Unit 3

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Months of the <u>Release</u>
Total Quantity of Wixture Released in Previous Year (in 1bs. or kg)
Number of Days Release Nocurs (per year)
Normal Range of Mixture (in lbs. or kg per day)* Upper Lower Bound Bound
Normal Range of Components (in lbs. or kg per day)* Weight Upper Lower Percentage Bound Bound
Name of Hazardous Substance Components CASRN#
Name of Mixture

Not Applicable

* Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.

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Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

Name of Source:

Baldwin Energy Complex - Units 1, 2 and 3

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

•	Months of the	Release	Jan. thru Dec.					
Total Quantity	Released in Previous Year	(in lbs. or kg)*		6337 lbs	5150 lbs	6812 lbs		
Number of Days	Release Occurs	(per year)		323	252	342		
Normal Range	kg per day)*	Upper Bound Lower Bound		0	0	0		
Normal (in lbs. or kg	Upper Bound		21 lbs	21 lbs	21 lbs		~	
		CASRN#	7440-39-3					
		Name of Hazardous Substance	Barium	1100	Chris	Unit 3	A STATE OF THE STA	

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

A ACCES OF

Normal Range of

Normal Range of

ρ.	-		"	
Mixture Delegged	in Previous Vear	Cir II 1-1	(in ios. or kg)	
Number of	Days Release IV	Occurs	(per year)	
Mixture	(in lbs. or kg per day)*	Upper Lower	Bound Bound	
Components	(in lbs. or kg per day)*	Weight Upper Lower	Bound Bound	
Name of	Hazardous		S CASRN# 1	
			ne of Mixture	Applicable

Release

Months of the

Not Applicable

CR-ERNS Number:

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Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

Name of Source:

Baldwin Energy Complex - Units 1, 2 and 3

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Jan. thru Dec. Months of the Release Released in Previous Year Total Quantity (in lbs. or kg)* 95,519 lbs 126,004 lbs 117,107 lbs Number of Days Release Occurs (per year) 342 323 252 Lower Bound (in lbs. or kg per day)* Normal Range 000 Upper Bound 382 lbs 381 lbs 392 lbs 7664-39-3 CASRN# Name of Hazardous Substance Hydrogen Fluoride Unit 2 Unit 3

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Normal Range of

Normal Range of

Release Months of the Total Quantity of Days Release Mixture Released in Previous Year (in lbs. or kg) Number of (per year) Occurs (in lbs. or kg per day)* Lower Upper Lower Bound Mixture (in lbs. or kg per day)* Lower Bound Components Upper Bound Percentage Weight CASRN# Substance Components Hazardous Name of Name of Mixture

Not Applicable

^{*} Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.

CR-ERNS Number:

625807

Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

Name of Source:

Baldwin Energy Complex - Units 1, 2 and 3

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Jan. thru Dec. Months of the Released in Previous Year Total Quantity (in lbs. or kg)* 120 lbs 148 lbs Number of Days Release Occurs (per year) 323 252 342 Lower Bound (in lbs. or kg per day)* 000 Upper Bound 0.5 lbs 0.5 lbs 0.5 lbs 7439-97-6 CASRN# Name of Hazardous Substance Mercury Compounds Unit 1 Unit 2 Unit 3

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Normal Range of

Normal Range of

Release Months of the Total Quantity of Days Release Mixture Released in Previous Year (in lbs. or kg) Number of (per year) Occurs (in lbs. or kg per day)* Upper Lower Bound Mixture (in lbs. or kg per day)* Lower Bound Components Upper Bound Percentage Weight CASRN# Substance Components Hazardous Name of Name of Mixture

Not Applicable

^{*} Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.

CR-ERNS Number:

625807

Calculation of the SSI Trigger

For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.

Name of Hazardous Substance:

Arsenic CAS # 7440-38-2

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

<u>Upper Bound of the Normal Range of the Release (specify lbs., kg, or Ci)</u>

Baldwin Energy Complex - Unit 1 2 lbs
Baldwin Energy Complex - Unit 2 2 lbs
Baldwin Energy Complex - Unit 3 2 lbs

TOTAL - SSI trigger for this hazardous substance release* : _

6 lhs

* This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.

CR-ERNS Number:

625807

Calculation of the SSI Trigger

For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.

Name of Hazardous Substance:

Barium CAS # 7440-39-3

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

<u>Upper Bound of the Normal Range of</u> the Release (specify lbs., kg, or Ci)

Baldwin Energy Complex - Unit 1 21 lbs
Baldwin Energy Complex - Unit 2 21 lbs
Baldwin Energy Complex - Unit 3 21 lbs

TOTAL - SSI trigger for this hazardous substance release*:

63 lbs

^{*} This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.

CR-ERNS Number:

625807

Calculation of the SSI Trigger

For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.

Name of Hazardous Substance:

Hydrogen Fluoride CAS # 7664-39-3

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

<u>Upper Bound of the Normal Range of</u> the Release (specify lbs., kg, or Ci)

Baldwin Energy Complex - Unit 1 381 lbs
Baldwin Energy Complex - Unit 2 382 lbs
Baldwin Energy Complex - Unit 3 392 lbs

TOTAL - SSI trigger for this hazardous substance release* : ____

1155 lbs

^{*} This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.

CR-ERNS Number:

625807

Calculation of the SSI Trigger

For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.

Name of Hazardous Substance:

Mercury Compounds CAS # 7439-97-6

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

<u>Upper Bound of the Normal Range of</u> <u>the Release (specify lbs., kg, or Ci)</u>

Baldwin Energy Complex - Unit 1 0.5 lbs
Baldwin Energy Complex - Unit 2 0.5 lbs
Baldwin Energy Complex - Unit 3 0.5 lbs

TOTAL - SSI trigger for this hazardous substance release* : _

1.5 lbs

^{*} This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.

SECTION 1	: GENERAL INFORMA	ΓΙΟΝ		CR-ERNS Number: 625807	
Date of In	itial Release:	Ongoing		Date of Initial Call to NRC: 10/11/2002	
Type of Report: Indicate below the type of report you are submitting. First Anniversary Written Notification of a Change to Initial Written Notification Report Report Written Notification of a Change to Follow-up Report Follow-up Report					
Signed Statement: I certify that the hazardous substances releases described herein are continuous and stable in quantity and rate under the definitions in 40 CFR 302.8(a) or 355.4(a)(2)(iii) and that all submitted information is accurate and current to the best of my knowledge. Richard W. Eimer, Jr., Sr. Vice President					
	11/14/2002 Date		R	Name and Position Signature	
Part A. Faci	<u>lity or Vessel I</u>	<u>nformation</u>			
Name of Facility or Vessel Baldwin Energy Complex - Units 1, 2, and 3			n Energy Complex - Units 1, 2, and 3		
Person in Charge	Name of Person in	Charge		Keith A. McFarland	
of Facility	Position			Vice President	
or Vessel	Telephone No. (61	8 ₎ 785-3212	Alternate Telephone No. (618) 785-3244		
Facility Address or	Street	10901 Baldwin R	oad	County Randolph	
Vessel Port of Registration	City	Baldwin		State IL Zip Code 62217	
	dstreet Number	for Facility		804405074	
Facility/Vess Location	Latitude Longitude	Deg89		12 Sec 18 51 Sec 16 Vessel LORAN Coordinates	
Part B. Por	Part B. Population Information				
Population Density	(Indicate by placin	g an "X" in the approp	oriat	on density within a one-mile radius of your facility or vessel te blank below). 101 - 500 persons more than 1000 persons 501 - 1000 persons	
Sensitive Populations and Ecosystems Within One		ve Populations or E spitals, wetlands, wi			
Mile Radius					

CR-ERNS Number:

625807

Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.

Name of Source:	Baldwin Energy Complex - Units 1, 2, and 3
Indicate whether the release from this continuous without interruption	source is either: X OR routine, anticipated, intermittent
If malfunction, describe the malfunction continuous and stable in quantity and	the release from this source (e.g., batch process, filling of a storage tank). on and explain why the release from the malfunction should be considered rate.* e combustion of sub-bitimunous coal in Units 1, 2 and 3.
3. Identify below how you established	the pattern of release and calculated release estimates.
Past release data	Knowledge of the facility/vessel's Engineering estimate operations and release history
	Best professional judgment Other (explain) at maximum load from all three units in a 24-hour period.

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

(continued)

CR-ERNS Number:

625807

Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

Name of Source:

Baldwin Energy Complex - Units 1, 2 and 3

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Jan. thru Dec. Months of the Released in Previous Year Total Quantity (in lbs. or kg)* 186 lbs 133 lbs 157 lbs Number of Days Release Occurs (per year) 365 365 365 Lower Bound (in lbs. or kg per day)* Normal Range 000 Upper Bound 0.6 lbs 0.7 lbs 0.5 lbs 7439-97-6 CASRN# Name of Hazardous Substance Mercury Compounds Unit 3 Unit 2 Unit 1

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Normal Range of

Number of Total Quantity of Days Release Mixture Released (per year) Occurs (in lbs. or kg per day)* Upper Lower
Bound Bound Mixture (in lbs. or kg per day)* Lower Bound Normal Range of Components Upper Bound Percentage CASRN# Substance Components Hazardous Name of Name of Mixture

Release

Months of the

Total Quantity of

in Previous Year (in lbs. or kg)

Not Applicable

* Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.

SECTION I: GENERAL INFORMATION			CR-ERNS Number: 625807	
Date of In	itial Release:	Ongoing		Date of Initial Call to NRC: 10/11/2002
Type of Report: Indicate below the type of report you are submitting. First Anniversary Written Notification of a Change to Report Initial Notification Follow-up Report Follow-up Report Follow-up Report				
Signed Statement: I certify that the hazardous substances releases described herein are continuous and stable in quantity and rate under the definitions in 40 CFR 302.8(a) or 355.4(a)(2)(iii) and that all submitted information is accurate and current to the best of my knowledge. Richard W. Eimer, Jr., Sr. Vice President Name and Position				
	11/6/2002 Date		Z	Signature States
Part A. Faci	lity or Vessel I	nformation_		
Name of Faci	llity or Vessel	Joh		Baldwin Energy Complex
Person in Charge of Facility or Vessel	Name of Person in Position Telephone No. (61)			Keith A. McFarland Vice President Alternate Telephone No. (618) 785-3244
Facility Address or Vessel Port of	Street City	10901 Baldwin I Baldwin	Road	d County Randolph State IL Zip Code 62217
Registration Dun and Bra	dstreet Number	for Facility		804405074
Facility/Vesso Location	Latitude Longitude	Deg89		12 Sec 18 51 Sec 16 Vessel LORAN Coordinates
Part B. Population Information				
Population Density	(Indicate by placin	hat describes the pop g an "X" in the appro 50 persons 100 persons	pria	ion density within a one-mile radius of your facility or vessel ate blank below). 101 - 500 persons more than 1000 persons 501 - 1000 persons
Sensitive Populations and Ecosystems Within One Mile Radius		ive Populations or I spitals, wetlands, w		

CR-ERNS Number:

625807

Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.

Name of Source:	Baldwin Energy Complex	x - Unit 1
1. Indicate whether the release from	this source is either:	
continuous without interruption _	X OR routine, anticipated	l, intermittent
	alts in the release from this source (e.g., batch anction and explain why the release from the and rate.*	
aldwin generates electricity by	the combustion of coal in Unit 1.	
2. Identify helow how you establis	shed the pattern of release and calculated rele	ease estimates
J. Identify below now you establish		
X Past release data	Knowledge of the facility/vessel's operations and release history	Engineering estimate

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

CR-ERNS Number:

625807

Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.

Name of Source:	Baldwin Energy Complex - Unit 2
1. Indicate whether the release from th	is source is either:
continuous without interruption	X OR routine, anticipated, intermittent
2. Identify the activity(ies) that results If malfunction, describe the malfunction continuous and stable in quantity an	
Baldwin generates electricity by th	ne combustion of coal in Unit 2.
	ENTER ENTER SERVICE SE
3. Identify below how you establishe	ed the pattern of release and calculated release estimates.
Past release data	Knowledge of the facility/vessel's Engineering estimate operations and release history
X AP-42	Best professional judgment Other (explain)
Reporting is based on generation	at maximum load for a 24-hour period.

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

CR-ERNS Number:

625807

Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.

Name of Source:	Baldwin Energy Complex - Unit 3
1. Indicate whether the release from this	is source is either:
continuous without interruption	X OR routine, anticipated, intermittent
Identify the activity(ies) that results If malfunction, describe the malfunction continuous and stable in quantity and	in the release from this source (e.g., batch process, filling of a storage tank) tion and explain why the release from the malfunction should be considered d rate.*
Baldwin generates electricity by th	ne combustion of coal in Unit 3.
	ne combustion of coal in Unit 3.
3. Identify below how you established	d the pattern of release and calculated release estimates.
	d the pattern of release and calculated release estimates. Knowledge of the facility/vessel's Engineering estimate operations and release history
Y Past release data	Knowledge of the facility/vessel's Engineering estimate
Past release data AP-42	Knowledge of the facility/vessel's Engineering estimate operations and release history
Past release data AP-42	Knowledge of the facility/vessel's Engineering estimate operations and release history Other (explain)

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

CR-ERNS Number:

625807

Name of Source: Baldwin Energy Complex - Unit 1					
Part B: Specific Information on the Source					
For the source identified above, provide the follo sheet for EACH source. Photocopy this page if					
AFFECTED MEDIUM. Identify the environmental media affected by the release from this source. If your source release wastepile releasing to air and ground water), treat the release Section II, Parts A, B, and C, of this format for EACH medians.	ases hazardous substances to more than one medium (e.g., a e to EACH medium as a separate source and complete				
AIR _ x (stack _ x or area) If the media source is a stack or a ground-based area source.	um affected is air, please also specify whether the				
If identified source is a stack, indicate stack heigh	ht: 605 ft. feet or meters; OR				
If identified source is an area source (e.g., waste emissions), indicate surface area: square f	pile, landfill, valves, tank vents, pump seals, fugitive eet or square meters.				
SURFACE WATER (stream, lake	_, or other)				
If the release affects any surface water body, give	ve the name of the water body.				
	If the release affects a stream, give the stream order or average flow rate, in cubic feet per second. stream order: or average flow rate: cubic feet/second; OR				
	of the lake in acres and the average depth in meters.				
surface area of lake: acres and average de					
SOIL OR GROUND WATER					
If the release is on or under ground, indicate the distance	to the closest water well.				
Optional In	formation				
The following information is not required in the final evaluating the risks associated with the continuous remake conservative assumptions about the appropare suggested units. You may use other units; howe	elease. If this information is not provided, EPA will riate values. Please note that the units specified below				
For a stack release to air, provide the following information, if available: Inside diameter 19.5 ft. feet or meters Gas Exit Velocity feet/second or meters/second Gas Temperature 325 F degrees Fahrenheit,	For a release to surface water, provide the following information, if available: Average Velocity feet/second of Surface Water				

Kelvin, or Celsius

CR-ERNS Number:

625807

Name of Source: Baldwin	Energy Complex - Unit 2	
Part B: Specific Information on the Source		
For the source identified above, provide the follow sheet for EACH source. Photocopy this page if n		
AFFECTED MEDIUM. Identify the environmental medium affected by the release from this source. If your source release wastepile releasing to air and ground water), treat the release section II, Parts A, B, and C, of this format for EACH medium	es hazardous substances to more than one medium (e.g., a to EACH medium as a separate source and complete	
AIR _ (stack _ or area _) If the medium source is a stack or a ground-based area source.	n affected is air, please also specify whether the	
If identified source is a stack, indicate stack height	: 605 ft. feet or meters; OR	
	ile, landfill, valves, tank vents, pump seals, fugitive	
SURFACE WATER (stream, lake	, or other)	
If the release affects any surface water body, give	the name of the water body.	
If the release affects a stream , give the stream orders or average flow rate:		
If the release affects a lake, give the surface area of	of the lake in acres and the average depth in meters.	
surface area of lake: acres and average dep	oth of lake: meters.	
SOIL OR GROUND WATER		
If the release is on or under ground, indicate the distance to the closest water well.		
Optional Info	ormation	
The following information is not required in the final revaluating the risks associated with the continuous relember make conservative assumptions about the appropriare suggested units. You may use other units; however	ease. If this information is not provided, EPA will iate values. Please note that the units specified below	
For a stack release to air, provide the following information, if available: Inside diameter 19.5 ft. feet or meters Gas Exit Velocity 115 ft/sec feet/second or meters/second Gas Temperature 306 F degrees Fahrenheit,	For a release to surface water, provide the following information, if available: Average Velocity feet/second of Surface Water	

Kelvin, or Celsius

SECTION II:	SOURCE
	INFORMATION
	(continued)

For a stack release to air, provide the following

Gas Exit Velocity 126ft/sec feet/second or

Gas Temperature 335 F degrees Fahrenheit,

19.5 ft. feet or meters

meters/second

Kelvin, or Celsius

information, if available:

Inside diameter

CR-ERNS Number:

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For a release to surface water, provide the

following information, if available:

Average Velocity _____ feet/second of Surface Water

Name of Source:	Baldwin Energy Complex - Unit 3
Part B: Specific Information on the Source	
For the source identified above, provide the following information. Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.	
affected by the release from this source	e environmental medium (i.e., air, surface water, soil, or ground water) that is e. If your source releases hazardous substances to more than one medium (e.g., a water), treat the release to EACH medium as a separate source and complete format for EACH medium affected.
AIR _ X (stack _ X or area source is a stack or a ground-base	If the medium affected is air, please also specify whether the ed area source.
If identified source is an are	ek, indicate stack height: 605 ft. feet or meters; OR ea source (e.g., waste pile, landfill, valves, tank vents, pump seals, fugitive earea: square feet or square meters.
SURFACE WATER (stre	eam, lake, or other)
If the release affects any surface water body, give the name of the water body.	
	am, give the stream order or average flow rate, in cubic feet per second. verage flow rate: cubic feet/second; OR
	e, give the surface area of the lake in acres and the average depth in meters. acres and average depth of lake: meters.
SOIL OR GROUND WATER If the release is on or under ground, indicate the distance to the closest water well.	
Optional Information	
evaluating the risks associated make conservative assumption	ot required in the final rule; however, such information will assist EPA in with the continuous release. If this information is not provided, EPA will ons about the appropriate values. Please note that the units specified below use other units; however, be certain that the units are clearly identified.

625807

CR-ERNS Number:

(continued)

Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

Name of Source:

Baldwin Energy Complex - Unit 1

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Total Quantity Number of Days Release Occurs (in lbs. or kg per day)* Normal Range

Months of the Released in Previous Year

Jan. thru Dec. (in lbs. or kg)* 61,058 lbs. 281 days (per year) Lower Bound Upper Bound CASRN# 7664-39-3 Name of Hazardous Substance Hydrogen Fluoride

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

(in lbs. or kg per day)* Normal Range of Lower Mixture (in lbs. or kg per day)* Normal Range of Components Name of

Upper Lower
Bound Bound Lower Bound Upper Bound Percentage Weight CASRN# Substance Components Hazardous Name of Mixture

Not Applicable

Release

Months ofthe

Number of Iotal Quantity of Days Release Mixture Released

in Previous Year (in lbs. or kg)

(per year) Occurs

Total Quantity of

* Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.

CR-ERNS Number:

625807

Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

Name of Source:

Baldwin Energy Complex - Unit 2

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Total Quantity Number of Days Release Occurs (in lbs. or kg per day)*

Months of the Released in Previous Year (in lbs. or kg)* (per year) Lower Bound Upper Bound CASRN# Name of Hazardous Substance Jan. thru Dec.

70,728 lbs.

329

0

233 lbs.

7664-39-3

Hydrogen Fluoride

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

(in lbs. or kg per day)* Upper Lower Normal Range of Mixture Normal Range of Components Hazardous Name of

Bound Bound (in lbs. or kg per day)*
Upper Lower Percentage Weight CASRN# Substance Components

Release

Months of the

Total Quantity of

Number of Iotal Quantity of Days Released

in Previous Year (in lbs. or kg)

> (per year) Occurs

> > Not Applicable

Name of Mixture

^{*} Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.

CR-ERNS Number:

625807

Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

Name of Source:

Baldwin Energy Complex - Unit 3

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Months of the Release Released in Previous Year Total Quantity (in lbs. or kg)* Number of Days Release Occurs (per year) Lower Bound (in lbs. or kg per day)* Normal Range Upper Bound CASRN# Name of Hazardous Substance

7664-39-3

209 lbs.

250

52,626 lbs.

Jan. thru Dec.

Hydrogen Fluoride

Total Quantity of Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.) (in lbs. or kg per day)* Upper Lower Bound Bound Normal Range of Mixture

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting

Number of 10tal Quantity of Days Release Mixture Released in Previous Year (per year) Occurs

(in lbs. or kg per day)*
Upper Lower

Bound Bound

Percentage Weight

CASRN#

Substance Components

Hazardous Name of

Normal Range of Components (in lbs. or kg)

Release

Months of the

> Name of Mixture Not Applicable

* Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.

625807

CR-ERNS Number:

Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

Name of Source:

Baldwin Energy Complex - Units 1, 2 and 3

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Released in Previous Year Months of the Total Quantity (in lbs. or kg)* Number of Days Release Occurs (in lbs. or kg per day)* Normal Range

(per year) Lower Bound Upper Bound 1.8 lbs 7439-97-6 CASRN# Name of Hazardous Substance Mercury Compounds

Jan. thru Dec.

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

(in lbs. or kg per day)* Upper Lower
Bound Bound Mixture Components Substance Components Hazardous Name of

(in lbs. or kg per day)*
Upper Lower

Bound Bound Percentage CASRN#

> Name of Mixture Not Applicable

Release

Months ofthe

Total Quantity of

Normal Range of

Normal Range of

Number of 10tal Quantity of Days Release Mixture Released

in Previous Year (in lbs. or kg)

(per year)

Occurs

* Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.

CR-ERNS Number:

625807

Calculation of the SSI Trigger

For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.

Name of Hazardous Substance:

Hydrogen Fluoride CAS # 7664-39-3

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

<u>Upper Bound of the Normal Range of the Release (specify lbs., kg, or Ci)</u>

Baldwin Energy Complex - Unit 1
Baldwin Energy Complex - Unit 2
Baldwin Energy Complex - Unit 3

234 lbs 233 lbs 209 lbs

TOTAL - SSI trigger for this hazardous substance release* : ____

676 lbs

^{*} This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.

CR-ERNS Number:

625807

Calculation of the SSI Trigger

For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.

Name of Hazardous Substance:

Mercury Compounds CAS # 7439-97-6

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

<u>Upper Bound of the Normal Range of</u> <u>the Release (specify lbs., kg, or Ci)</u>

Baldwin Energy Complex - Unit 1
Baldwin Energy Complex - Unit 2
Baldwin Energy Complex - Unit 3

0.6 lbs 0.7 lbs 0.5 lbs

TOTAL - SSI trigger for this hazardous substance release* : __

1.8 lbs

^{*} This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.